

LISTING OF CLAIMS

1. (currently amended) A speech recognition system, comprising:

a features extractor that extracts a multitude of speech features directly from input speech;

a log-linear function that receives the multitude of speech features obtained from the input speech and determines to-determine a posterior probability of each of a plurality of hypothesized linguistic units ~~unit~~ given the extracted multitude of speech features, and

a search device that analyzes the posterior probabilities determined by ~~consults~~ the log-linear function to determine a recognized output of unknown utterances.

2. (currently amended) The speech recognition system of claim 1, wherein the log linear function models the posterior probability using a log linear model.

3. (original) The speech recognition system of claim 1, wherein the speech features comprise at least one of asynchronous, overlapping, and statistically non-independent speech features.

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4. (original) The speech recognition system of claim 1, wherein at least one of the speech features extracted is derived from incomplete data.

5. (original) The speech recognition system of claim 1, further comprising a loopback.

6. (original) The speech recognition system of claim 1, wherein the features are extracted using direct matching between test data and training data.

5 7. (currently amended) A speech recognition method, comprising:

extracting a multitude of speech features directly from input speech;

using a log linear function for determining a
10 posterior probability of each of a plurality of
hypothesized linguistic units ~~unit~~ given the extracted
multitude of speech features, and

~~using a log-linear function,~~ determining a recognized
output of unknown utterances using the posterior
15 probabilities.

8. (original) The speech recognition method of claim
7, wherein the log linear function models the posterior
probability using a log linear model.

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9. (original) The speech recognition method of claim
7, wherein the speech features comprise at least one of
asynchronous, overlapping, and statistically non-
independent speech features.

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10. (original) The speech recognition method of claim
7, wherein at least one of the speech features extracted is
derived from incomplete data.

11. (original) The speech recognition method of claim 7, further comprising a step of loopback.

12. (original) The speech recognition method of claim 7, wherein the features are extracted using direct matching between test data and training data.

13. (new) The speech recognition system of claim 1, wherein the features are extracted using Gaussian model identities at each time frame.

14. (new) The speech recognition method of claim 7, wherein the extracting of a multitude of speech features comprises using Gaussian model identities at each time frame to identify and extract features.